Micro-Processor and Embedded Systems Lab-Session 5 Report for MCU

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AIM: week 5 and week 6 we must create an MCU. So, we have implemented a MUX A in this week.

Summary:

- 1. Using Nomachine access the VIVADO By sourcing /proj/cad/startup/profile.xilinx_vivado_18.3.
- 2. Command to open the tool is vivado&
- 3. Create a new project on the software for ALU and registers.
- 4. ALU and register file Verilog codes along with the test benches have been complied successfully.
- 5. Ran the behavioral simulation for the test bench codes.

MCU:

A microcontroller (MCU for microcontroller unit) is a small computer on a single VLSI integrated circuit (IC) chip

MUX A:

A multiplexer is a device that selects one output from multiple inputs. It is also known as a data selector. We refer to a multiplexer with the terms MUX

Conclusion:

We were able to successfully create the MUX A. I would like to implement all the modules and create an MCU

Attachments:

We have uploaded the codes and testbenches for the MUX A in the attachments along with screenshot of the simulation.